

**METHOD FOR ADAPTING AN ACTUATION DISTANCE MODEL FOR AN EXHAUST
TURBOCHARGER**

Abstract

5 Parameters of an actuation distance model are adapted for an
exhaust turbocharger actuator. For this, in the stationary or
quasi-stationary operating state of the internal combustion
engine, a first actuator is activated in the exhaust tract.
The parameters of the actuation distance model are adapted on
10 the basis of a comparison of the actual and target values for
a modified state variable at the turbine. The change brought
about by activation of the first actuator is compensated by
activation of a second actuator in the fresh air tract.